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FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS

ON

LOGGING, MILLING, AND UTILIZATION OF TIMBER PRODUCTS

March 1963

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Forest Products Laboratory
Forest Service
U.S. Department of Agriculture
Madison 5, Wisconsin
In cooperation with the University of Wisconsin

FOREST PRODUCTS LABORATORY LIST OF PUBLICATIONS ON
LOGGING, MILLING, AND UTILIZATION OF TIMBER PRODUCTS¹

TABLE OF CONTENTS

This list includes publications that present the results of research by the Forest Products Laboratory on methods and practices in the lumber producing and wood-consuming industries; standard lumber grades, sizes, and nomenclature; production and use of small dimension stock; specifications for small wooden products; utilization of little-used species and commercial woods; and low-grade and wood-waste surveys. Included also are other Government and commercial publications on these subjects.

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¹This list was previously issued as Forest Products Laboratory Report No. 790 under the same title.

INSTRUCTIONS FOR OBTAINING PUBLICATIONS

Publications available for distribution at this Laboratory are marked with an asterisk (*).

Single copies of technical notes, reprints, and processed reports may be obtained free upon request from the Director, Forest Products Laboratory, Madison 5, Wis.

Federal Government bulletins, circulars, and leaflets, if not available for free distribution at this Laboratory may be purchased at the price indicated from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Send money order, draft, or cash; stamps or personal checks are not accepted.

Trade journals containing articles herein listed may often be purchased from the publishers or may be consulted in various libraries.

The Forest Products Laboratory reserves the right to furnish only those publications which in its judgment will give the information requested. Blanket requests or requests for a large number of copies of any individual article will not be filled except in unusual cases.

HARVESTING

*Quality-controlled log bucking, by E. W. Fobes. For. Prod. Jour. 10(8): 415, Aug. 1960.

Logging farm wood crops, by F. C. Simmons. USDA Farm. Bull. 2090. 1955. 20 cents.

*Improved harvesting studies--equipment survey notes:

Rept. No.

- | | |
|--------|---|
| 1637-1 | Arch mounted on crawler tractor. 1947. Information Reviewed and Reaffirmed 1960. |
| -2 | End loading trucks. 1947. Information Reviewed and Reaffirmed 1960. |
| -3 | Self-loading semi-trailers. 1947. Information Reviewed and Reaffirmed 1960. |
| -5 | Logging sulkies. 1947. Information Reviewed and Reaffirmed 1960. |
| -6 | End-loading semi-trailer. 1947. Information Reviewed and Reaffirmed 1960. |
| -7 | Hydraulic log cart. 1947. Information Reviewed and Reaffirmed 1960. |
| -8 | Hydraulic clutch for truck winches. 1947. Information Reviewed and Reaffirmed 1960. |
| -9 | Preloading detachable truck body. 1947. Information Reviewed and Reaffirmed 1960. |
| -10 | Safety trip stake. 1947. Information Reviewed and Reaffirmed 1960. |
| -11 | Tractor skidding attachments. 1947. Information Reviewed and Reaffirmed 1960. |
| -12 | Sorting platform. 1947. Information Reviewed and Reaffirmed 1960. |
| -13 | Portable spars. 1947. Information Reviewed and Reaffirmed 1960. |
| -14 | Powered unloader. 1947. Information Reviewed and Reaffirmed 1960. |
| -15 | Dump trucks for logging. 1947. Information Reviewed and Reaffirmed 1960. |
| -16 | Straddle logging tractor. 1947. Information Reviewed and Reaffirmed 1960. |
| -17 | Transporting logs by skyhook. 1947. Information Reviewed and Reaffirmed 1960. |
| -18 | Mobile pulpwood harvesters. 1947. Information Reviewed and Reaffirmed 1960. |

HARVESTING (continued)

*Improved harvesting studies--equipment survey notes: (continued)

Rept. No.

- | | |
|---------|--|
| 1637-19 | Use of tongs to anchor skidders. 1947. Information Reviewed and Reaffirmed 1960. |
| -20 | Inexpensive logging incline. 1947. Information Reviewed and Reaffirmed 1960. |
| -21 | Log-measuring instrument. 1947. Information Reviewed and Reaffirmed 1960. |
| -22 | Hydraulic skidding attachment. 1947. Information Reviewed and Reaffirmed 1960. |
| -23 | Sliding jammers. 1947. Information Reviewed and Reaffirmed 1960. |
| -24 | Combined bunching and skidding. 1947. Information Reviewed and Reaffirmed 1960. |
| -25 | A "jeep logger." 1948. Information Reviewed and Reaffirmed 1960. |
| -26 | Slab pick-up racks. 1948. Information Reviewed and Reaffirmed 1960. |
| -27 | Wyssen cable system. Revised 1960. |
| -28 | Preloading pulpwood racks. 1948. Information Reviewed and Reaffirmed 1960. |
| -29 | Single line continuously moving cable systems. 1948. Information Reviewed and Reaffirmed 1960. |
| -30 | Aerial skidding by gravity. 1948. Information Reviewed and Reaffirmed 1960. |
| -32 | Self-loader for long logs. 1949. Information Reviewed and Reaffirmed 1960. |
| -33 | Improved log loading tongs. 1949. Information Reviewed and Reaffirmed 1960. |
| -38 | Inexpensive crane-type loader. 1949. Information Reviewed and Reaffirmed 1960. |
| -39 | Hydraulic hoist log loader. 1949. Information Reviewed and Reaffirmed 1960. |
| -40 | Improved alinement of logging roads reduces hauling costs. 1950. Information Reviewed and Reaffirmed 1960. |
| -41 | Jack-knife sulky. 1950. Information Reviewed and Reaffirmed 1960. |
| -42 | Skidding and bunching tractor. 1951. Information Reviewed and Reaffirmed 1960. |
| -43 | Mobile pulpwood conveyor. 1951. Information Reviewed and Reaffirmed 1960. |

HARVESTING (continued)

*Improved harvesting studies--equipment survey notes: (continued)

Rept. No.

- | | |
|---------|---|
| 1637-44 | Mobile drum bark peeler. 1951. Information Reviewed and Reaffirmed 1960. |
| -45 | Automatic trip stakes. 1951. Information Reviewed and Reaffirmed 1960. |
| -46 | Front-end loaders. 1951. Information Reviewed and Reaffirmed 1960. |
| -47 | Tractor pull-out chains. 1951. Information Reviewed and Reaffirmed 1960. |
| -48 | Hand-operated sulky. 1951. Information Reviewed and Reaffirmed 1960. |
| -49 | Chain bundling. 1952. Information Reviewed and Reaffirmed 1960. |
| -50 | Rubber-tired skidders. 1952. Information Reviewed and Reaffirmed 1960. |
| -51 | Wyssen cable operation in British Columbia. 1952. Information Reviewed and Reaffirmed 1960. |
| -52 | Log trailer transfer unit. 1952. Information Reviewed and Reaffirmed 1960. |
| -53 | Plank roads. 1953. Information Reviewed and Reaffirmed 1960. |
| -54 | Cross-haul loading device. 1953. Information Reviewed and Reaffirmed 1960. |
| -55 | Truck-loading booms. 1953. Information Reviewed and Reaffirmed 1960. |
| -56 | Combination skidder-loader. 1953. Information Reviewed and Reaffirmed 1960. |
| -57 | Transportation and handling of whole trees. 1958. |
| -58 | Improved handhooks. 1953. Information Reviewed and Reaffirmed 1960. |
| -59 | Log dimensions and the selection of equipment. 1961. |

BARKING AND CHIPPING

*Wood-chipping equipment and materials handling, by E. W. Fobes. FPL Report No. 2160. 1959.

*Bark-peeling machines and methods, by E. W. Fobes. FPL Report No. 1730. Revised 1962.

BARKING AND CHIPPING (continued)

- *Developments in debarking, by E. W. Fobes. FPL Report No. 2071. 1956. Information Reviewed and Reaffirmed 1962.
- *The use of debarkers in the South, by E. W. Fobes. South. Lbrmn. 193(2417):239-240, Dec. 15, 1956.
- *Debarkers used in the South and East, by R. H. P. Miller. FPL Report No. 2038. 1955. Information Reviewed and Reaffirmed 1962.
- *Portable barking equipment, by E. W. Fobes. Forest Products Research Society Proceedings, 1952.
- *Sawmill bark peelers, by E. W. Fobes. FPL Report No. II-21. 1955. Information Reviewed and Reaffirmed 1960.
- Status of portable wood chippers, by E. W. Fobes. Forest Products Research Society Proceedings, 1949.

MILLING

- *A mathematical analysis of the effect of kerf width on lumber yield from small logs, by Hiram Hallock. FPL Report No. 2254. 1962.
- *New study proves narrower kerf hikes yields on logs under 12 inches, by Hiram Hallock. South. Lbrmn. 205(2561):172, 176, 178, Dec. 15, 1962.
- *Kerf chip sawing-a mixed blessing? by Hiram Hallock. South. Lbrmn. 203(2528):33, 36, 38, 40, 42, Aug. 1, 1961.
- *Saw performance and lumber characteristics when producing pulpable southern pine sawdust, by F. B. Malcolm, L. H. Reineke, and H. Hallock. FPL Report No. 2210. 1961.
- *Pendulum cutting test standardization and pertinent cutting fundamentals, by L. H. Reineke. For. Prod. Jour. Part I, Oct. 1960; Part II, Nov. 1960.
- *Factors influencing an expanded sawmilling industry for Hawaii, by F. B. Malcolm. FPL Report No. 2190. 1960.
- *Feed-speed relationships for cutting tools, by L. H. Reineke. FPL Report No. 2184. 1960.

MILLING (continued)

- What are the relationships of feed speeds for cutting tools? by L. H. Reineke. Hitchcock's Woodworking Digest 62(3):83-85, Mar. 1960.
- *Yield and value of finished lumber from western white pine trees and logs, by E. W. Fobes. FPL Report No. 2163. 1959.
- *Advances in sawing from forest to shop, by L. H. Reineke. FPL Report No. 2100. 1958.
- Can logs containing sweep be straightened before sawing? by E. C. Peck. South. Lbrmn. 194(2422):70, Mar. 1, 1957. Timber Tech. 65(2221):58-81, Nov. 1957.
- Why blame the saw? by F. B. Malcolm. South. Lbrmn. 194(2420):54, 56, Feb. 1, 1957.
- *Motion energy of wood particles, by L. H. Reineke. For. Prod. Jour. 6(12):507-509, Dec. 1956.
- *Sawing rates, sawdust chambering, and spillage, by L. H. Reineke. For. Prod. Jour. 6(9):348-354, Sept. 1956.
- *Taming the saw, by L. H. Reineke. Wood, May 1950.
- *Quality control in manufacture of lumber from second growth, by B. H. Paul and C. V. Sweet. South. Lbrmn., Mar. 1, 1949. FPL Report No. 1781. Revised 1962.
- Strr-ike one--you're out, by L. H. Reineke. Natl. Safety News 73(4):36-37, 107-114, Apr. 1956.
- *Thickness variation of lumber cut by circular mills, by C. J. Telford. South. Lbrmn. 192(2397):54, 56, Feb. 15, 1956.
- *Why joint saws? by L. H. Reineke. For. Science 1(1):31-36, Mar. 1955.
- *Milling equipment for small logs, by C. J. Telford. South. Lbrmn., Dec. 15, 1954.
- Volume loss from inaccurate log sawing, by L. H. Reineke. South. Lbrmn., Sept. 15, 1954.

MILLING (continued)

- *Small sawmills, a pocket guide, by C. J. Telford. U.S. Department of Agriculture Handbook No. 70. 1954.
- *Production performance of equipment used to saw small logs, by C. J. Telford. FPL Report No. 1971. 1954. Information Reviewed and Reaffirmed 1959.
- *Small sawmill operator's manual, by C. J. Telford. U.S. Department of Agriculture Handbook No. 27. 1952.
- *Sawteeth in action, by L. H. Reineke. Forest Products Research Society Proceedings, 1950, Portland, Oreg.
- *Open season on saws, by L. H. Reineke. Forest Products Research Society Proceedings, 1950, Roanoke, Va.; FPL Report No. II-5. Information Reviewed and Reaffirmed 1963.
- *Energy requirements for insert-point circular headsaws, by C. J. Telford. Forest Products Research Society Proceedings, 1949.
- *Small sawmill improvement, practical pointers to field agencies:
 - Rept. No.
 - 899-12 Small sawmill accounting. Oct. 1940. Information Reviewed and Reaffirmed 1960.
 - 15 Plans for small mill lumber treating equipment. Jan. 1942. Information Reviewed and Reaffirmed 1960.
 - 16 Methods of loading lumber at the rear of the mill. Information Reviewed and Reaffirmed 1960.
 - 18 Scale boards. Information Reviewed and Reaffirmed 1960.
 - 21 Small mill conveyor. Sept. 1944. Revised 1958.
 - 22 Burning waste material. Dec. 1953. Information Reviewed and Reaffirmed 1960.
 - 23 Methods of loading lumber at the rear of the mill (second in series). Information Reviewed and Reaffirmed 1959.
 - 25 Burning waste material at small plants remanufacturing wood products. Information Reviewed and Reaffirmed 1963.
 - 26 Summary of tests on power used on insert-point circular headsaws. Mar. 1949. Information Reviewed and Reaffirmed 1963.
 - 28 Mechanically powered deck equipment. Information Reviewed and Reaffirmed 1963.

MILLING (continued)

*Small sawmill improvement, practical pointers to field agencies:

Rept. No.

899-30

Methods of handling lumber at the rear of the mill (third in series). Aug. 1956. Information Reviewed and Reaffirmed 1963.

MACHINING

*Machining and related characteristics of United States hardwoods, by E. M. Davis. Tech. Bull. 1267. Aug. 1962. Available from Superintendent of Documents, Government Printing Office, Washington 25, D.C. 35 cents.

*The effect of density upon wood properties, by E. M. Davis. Hitchcock's Wood Working Digest 63(9):52-54, Sept. 1961.

*Bumps and dents on lumber, by E. M. Davis. For. Prod. Jour. 10(10):522-523, Oct. 1960.

The danger of excessive rough planing, by E. M. Davis. Hitchcock's Wood Working Digest 62(9):78-79, Sept. 1960.

Trouble-shooting in woodworking, by E. M. Davis. Hitchcock's Wood Working Digest 62(8):77-83, Aug. 1960.

Conventional planer shavings vs. special planer chips for pulp, by E. M. Davis. Paper Industry, pp. 20-22, Apr. 1960.

*Machining ponderosa pine and Douglas-fir: Effect of growth rate and density, by E. M. Davis. For. Prod. Jour. 10(1):1-3, Jan. 1960.

*Three "musts" for good machining, by E. M. Davis. Wood-Worker, Mar. 1959.

Good planing practices in Engelmann spruce and lodgepole pine require attention to moisture, knife cuts, and depth of cut, by E. M. Davis. Lumberman 85(10):44-46, Oct. 1958.

*Development of methods for evaluating the machining qualities of wood and wood-base materials, by E. M. Davis. FPL Report No. 2108. 1958.

Machining properties of eight Philippine hardwoods, by E. M. Davis and D. G. Faustino. Wood-Worker 76(9):8-10, Nov. 1957.

MACHINING (continued)

- *Some machining properties of nine Liberian hardwoods, by E. M. Davis.
FPL Report No. 2093. 1957. Information Reviewed and Reaffirmed 1963.
- *Machining tests for particle board; some factors involved, by E. M. Davis.
FPL Report No. 2072. 1957. Information Reviewed and Reaffirmed 1963.
- Developments in woodworking machinery during the last 75 years, by E. M. Davis. The Wood-Worker 76(1):8-11, 22-29, Mar. 1957.
- *Testing hardboard for machinability, by E. M. Davis. The Wood-Worker 75(4):24-35, 79-90, June 1956.
- Grain separation and related defects in Douglas-fir door stock, by E. M. Davis. The Wood-Worker 74(11):12-13, 26-30, Jan. 1956.
- *Woodworking machines, by E. M. Davis. FPL Report No. 1706. 1947.
Information Reviewed and Reaffirmed 1959.
- Portable planers, by F. B. Malcolm. Wood, Aug. 1950; South. Lbrmn., Nov. 15, 1950.
- *Custom planing facilities for farm lumber. FPL Report No. II-29. 1949.
Information Reviewed and Reaffirmed 1963.
- Machining of madrone, California laurel, tanbark oak, and chinquapin, by E. M. Davis. California Lumber Merchant, Dec. 15, 1947.
- Machining and related characteristics of southern hardwoods, by E. M. Davis. USDA Tech. Bull. 824. May 1942.

MARKETING (FARM AND WOODLOT TIMBER)

- Measuring and marketing farm timbers, by Forest Service. USDA Farm. Bull. 1210. Revised 1955. 15 cents.
- Managing the small forest, by Forest Service, Soil Conservation Service and Extension Service. USDA Farm Bull. 1989. Revised Jan. 1948.
15 cents.

GRADES, SPECIFICATIONS, AND STANDARDIZATION

- *California black oak, a utilization study, by F. B. Malcolm. FPL Report No. 2237. 1962.
- *Yield in clear cuttings from standard grade eastern white pine boards in New England, by George H. Englerth and A. C. Wollin. FPL Report No. 2243. 1962.
- *Effect of defect placement and taper setout on lumber grade yields when sawing hardwood logs, by F. B. Malcolm. FPL Report No. 2221. 1961.
- *Overrun estimates of the Scribner Decimal C log rule and the International 1/4-Inch log rule for hardwood logs, by John W. Henley. FPL Report No. 2214. 1961.
- *A method of indirect calculation for use in log grade analyses, by D. O. Yandle. FPL Report No. 2194. 1960.
- *Overall work plan for development of log and bolt grades for hardwoods, by C. L. Vaughan, R. H. P. Miller, A. C. Wollin, and A. O. Benson. TGUR-16, Aug. 1958.
- *Simplified principles for structural grading of timber, by L. J. Markwardt and L. W. Wood. FPL Report No. 2112. 1958.
- *A simplified procedure for developing grade lumber from hardwood logs, by F. B. Malcolm. FPL Report No. 2056. Revised 1963.
- Grading problems that challenge the lumber industry, by R. P. A. Johnson. Forest Products Research Society Proceedings, 1950; Wood Products, Dec. 1950.
- *Pocket edition--Hardwood log grades for standard lumber and how to apply them. FPL Report No. 1737-A. Information Reviewed and Reaffirmed 1961.
- An evaluation of defect orientation methods in grade sawing northern hardwoods, by J. W. Creighton, F. B. Malcolm, and A. C. Wollin. Michigan State University Quarterly Bull. 38(3):216-224, Nov. 1955. (Michigan Agricultural Experiment Station, East Lansing, Mich.)
- Oregon maple log and lumber grading, by A. C. Wollin and J. R. Pfeiffer. Oregon Forest Products Laboratory, Corvallis, Oreg. Report No. G-5, 1955.

GRADES, SPECIFICATIONS, AND STANDARDIZATION (continued)

*Hardwood log grades for standard lumber--Proposals and results. FPL Report No. 1737. 1949. Information Reviewed and Reaffirmed 1959.

*New log studies to aid graders, by C. V. Sweet and E. W. Fobes. Wood 9(5): 22-23, May 1951; Timber Topics 14(2):4, Apr.-May 1951.

UTILIZATION

Waste

*Waste Utilization reports:

Rept. No.

- | | |
|------|---|
| 1666 | General recommendations regarding methods for wood waste utilization. Revised 1953. Information Reviewed and Reaffirmed 1960. |
| -1 | Uses for sawdust and shavings. Revised 1961. |
| -2 | Uses for slabs, edgings, and trims. 1955. Information Reviewed and Reaffirmed 1960. |
| -3 | Uses for forest residues. Information Reviewed and Reaffirmed 1958. |
| -5 | Chemical composition and uses of bark. Revised 1961. |
| -6 | Uses of wood wastes in pulp and paper products. 1953. Information Reviewed and Reaffirmed 1960. |
| -8 | Fabrication of wood products at small sawmills and wood-working plants. 1955. Information Reviewed and Reaffirmed 1960. |
| -9 | Wood flour. 1947. Information Reviewed and Reaffirmed 1961. |
| -13 | Briquets from wood waste. Revised 1960. |
| -14 | Sawdust floor-sweeping compounds. 1947. Information Reviewed and Reaffirmed 1962. |
| -16 | Briquets from wood waste. Revised 1960. |
| -17 | Use of short boards in sheathing crates. Information Reviewed and Reaffirmed 1958. |
| -18 | Wood fuel combustion practice. Revised 1960. |
| -19 | Wood fuel preparation. Revised 1960. |
| -21 | Board materials from wood residues. Revised 1961. |

UTILIZATION (continued)

General

*Protect imported carvings with PEG, by H. L. Mitchell and E. W. Fobes. For. Prod. Jour. 12(10):476-477, Oct. 1962.

*Electron microscope expands horizons in wood research, by I. B. Sachs. FPL Report No. 2256. 1962.

*A concept of intrinsic wood quality, and nondestructive methods for determining quality in standing timber, by H. L. Mitchell. FPL Report No. 2233. 1961.

*Method of determining specific gravity of small wood chips, by Diana M. Smith. FPL Report No. 2209. 1961.

*Quality evaluation of Hawaiian timber, by F. B. Malcolm. FPL Report No. 2226. 1961.

*Forest industry opportunities in rural development. U.S. Department of Agriculture Inf. Bull. No. 222. Mar. 1960.

*Recent progress in forest products research, by E. G. Locke. South. Lbrmn., Dec. 15, 1959.

✓ *How to treat fence posts by double diffusion, by R. H. Baechler. FPL Report No. 1955. Revised 1961.

*Timber resources, by J. A. Hall. FPL Report No. 2080. 1957. Information Reviewed and Reaffirmed 1963.

*Opportunities and problems in utilizing wood products of the southern and south central forests, by J. A. Hall. Society of American Foresters Proceedings, 1956.

Stadium seating: A Madison project for the use of low-grade timber overlaid with resin-treated paper, by B. G. Heebink. Wood 21(7):266-267, July 1956.

*Making log cabins endure. FPL Report No. 982. Revised 1960.

UTILIZATION (continued)

General (continued)

- *Excelsior manufacture. FPL Report No. 1711. 1948. Information Reviewed and Reaffirmed 1961.
- *Wood slat snow fence, by A. O. Benson. FPL Report No. 1085. 1936. Information Reviewed and Reaffirmed 1960.
- *Fiber products as a factor in utilization, by E. G. Locke and K. G. Johnson. For. Prod. Jour. 5(3):153-156, June 1955.
- Overlays promise better utilization of timber, by R. J. Seidl. Society of American Foresters Proceedings, 1955, pp. 110-115.
- *Utilization of farm woodlot woods for roofing felt, by E. A. Anderson and C. E. Hrubesky. FPL Report No. 1739. Information Reviewed and Reaffirmed 1960.
- *Prospective wood quality and species requirements in forest industries, by J. A. Hall. Society of American Foresters Proceedings, 1954, pp. 75-77.
- *Effect of time of cutting timber on its durability. Tech. Note F-15. 1953. Reissued 1958.
- *How to make a laminated diving board. Tech. Note 244. Revised 1958.
- *Suitability of woods for use in barns and other farm structures. Tech. Note 246. Reissued 1953.
- *Weights of various woods grown in the United States. Tech. Note 218. 1953. Reissued 1961.
- *The wood pallet industry, its development and progress toward standardization. FPL Report No. 1957. 1953. Information Reviewed and Reaffirmed 1962.
- *Suitability of woods for use in the frame house. Tech. Note 245. Revised 1952.
- *Characteristics of wood as fuel, by R. H. P. Miller. Forest Products Research Society, May 1951.

UTILIZATION (continued)

General (continued)

*Gasogens, by R. H. P. Miller. FPL Report No. 1463. 1944. Information Reviewed and Reaffirmed 1962.

Hickory-ash bats get baseball trial, by J. K. McDonald. South. Lbrmn., Dec. 15, 1951.

By Industries

Buildings

*Selecting farm framing lumber for strength, by Lyman W. Wood. USDA Leaflet No. 481. 1960.

*Strength tests of spliced studs, by E. C. O. Erickson. FPL Report No. 1275, Revised 1959.

*Nailing dense hardwoods. Tech. Note 247. 1953. Reissued 1961.

*Wood siding for buildings, by F. A. Streng. FPL Report No. 1929. Information Reviewed and Reaffirmed 1960.

*Finishing and maintaining wood floors, by F. L. Browne. FPL Report No. 2169. 1959.

Use and abuse of wood in house construction, by R. P. A. Johnson and E. M. Davis. USDA Misc. Pub. 358. 1939. 10 cents.

Selection of lumber for farm and home building, by C. V. Sweet and R. P. A. Johnson. USDA Farm. Bull. 1756. Slightly revised 1958. 20 cents.

Containers

*Hardwood pallet manufacturing, by T. B. Heebink and E. W. Fobes. FPL Report No. 2132. 1958.

*Bin pallets for agricultural products, by T. B. Heebink. FPL Report No. 2115. 1958.

UTILIZATION (continued)

By Industries (continued)

Containers (continued)

Species of wood suitable for use in contact with foodstuffs, by R. P. A. Johnson. Cold Storage Locker Operator's Conference Proceedings, 1939.
(Copies of Proceedings available from Prof. Marvin A. Schaars, Room 204, Agriculture Hall, University of Wisconsin, Madison, Wis., for 75 cents.)

Tests of wood for butter containers with reference to imparting odor and flavor, by E. M. Davis. USDA Misc. Pub. 250. 1936. 5 cents.

Description of the tests made of southern hardwoods for butter boxes and tubs. Barrel and Box and Packages, Oct. 1934.

Veneer and Plywood

*The manufacture of veneer. FPL Report No. 285. Revised 1962.

*Properties of ordinary wood compared with plywood. Tech. Note 131. 1952.

*Veneer cutting and drying properties:

Rept. No.

- | | |
|--------|---|
| 1766-1 | Water oak. 1950. Information Reviewed and Reaffirmed 1960. |
| -2 | Red alder. Information Reviewed and Reaffirmed 1960. |
| -3 | Cottonwood. 1950. Information Reviewed and Reaffirmed 1960. |
| -4 | Western larch. 1951. Information Reviewed and Reaffirmed 1960. |
| -7 | Western hemlock. 1951. Information Reviewed and Reaffirmed 1960. |
| -8 | Redwood. Revised 1959. |
| -9 | Tupelo. 1953. Information Reviewed and Reaffirmed 1960. |
| -10 | Englemann spruce. 1953. Information Reviewed and Reaffirmed 1960. |
| -11 | Southern pine. 1956. Information Reviewed and Reaffirmed 1962. |
| -12 | Ponderosa pine. 1956. Information Reviewed and Reaffirmed 1962. |

UTILIZATION (continued)

By Industries (continued)

Veneer and Plywood (continued)

*Veneer cutting and drying properties: (continued)

Rept. No.

1766-13	Aspen and hybrid poplar. 1957. Information Reviewed and Reaffirmed 1963.
-14	Pacific madrone. 1959.
-15	Tanoak. 1959.
-16	Tamarack. 1961.

By Species

*U.S. Forest Service American woods series:

Alder, red	Maple
Baldcypress	Oaks
Beech, American	Osage-orange
Buckeye	Pecan
Butternut	Persimmon
Cedar, Alaska	Pine, eastern white
" , eastern red-	" , jack
" , incense-	" , ponderosa
" , northern white-	" , red
" , Port Orford white-	" , southern
Cherry, black	" , sugar
Chestnut	" , western white
Douglas-fir	Poplar, balsam
Fir, balsam	Redwood
" , noble	Spruce, Sitka
" , white	Sweetgum
Hackberry	Sycamore, American
Hemlock, eastern	Tamarack
" , western	Tupelo
Holly, American	Walnut, black
Larch, western	Willow, black
Locust, black	Yellow poplar

UTILIZATION (continued)

By Species (continued)

- *Specific gravity variation in Mississippi pines, by P. R. Wheeler and H. L. Mitchell. FPL Report No. 2250. 1962.
- *Color tests for differentiating heartwood and sapwood in certain softwood tree species, by Norman P. Kutscha and Irving B. Sachs. FPL Report No. 2246, 1962.
- Early pruning improves lumber grades, by B. H. Paul. South. Lbrmn. 202(2516):29-30, 32, Feb. 1, 1961.
- *Some anatomical responses of loblolly pine to soil-water deficiencies, by Diana M. Smith and Mary C. Wilsie. Tappi 44(3):179-185, Mar. 1961.
- *Lake States aspen reports. Lake States Forest Experiment Station, St. Paul 1, Minn. A series of twenty-two reports on the utilization of aspen.
- *Northeastern Forest Experiment Station beech utilization reports. Northeastern Forest Experiment Station, 102 Motors Avenue, Upper Darby, Pa. A series of nineteen reports on the utilization of beech.
- *Second growth oak, by B. H. Paul. South. Lbr. Jour., Jan.-Feb. 1959.
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By Species (continued)

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By Species (continued)

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- *Cativo, Prioria copaifera Gris., by B. F. Kukachka and Jeannette M. Kryn. FPL Report No. 1998. Revised 1958.
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UTILIZATION (continued)

By Species (continued)

*U.S. Forest Service foreign woods series: (continued)

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*Mahogany, Swietenia macrophylla King, Meliaceae, by B. F. Kukachka. FPL Report No. 2167. 1959.

*Marupa, Simarouba amara Abul., by B. F. Kukachka. FPL Report No. 1956. Revised 1960.

*Palosapis, Anisoptera spp., by B. F. Kukachka. FPL Report No. 2051. 1956. Information Reviewed and Reaffirmed 1962.

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*Sen, Kalopanax pictus (Thumb.) Nakai, by B. F. Kukachka. FPL Report No. 1979. Revised 1957. Information Reviewed and Reaffirmed 1963.

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UTILIZATION (continued)

By Species (continued)

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OTHER LISTS OF PUBLICATIONS

Forestry, lumber and timber ranges and grazing, American woods--a list of publications relating to above subjects for sale by the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Price List No. 43, 51st edition, dated June 1961.

OTHER LISTS OF PUBLICATIONS (continued)

Index to publications of the U.S. Department of Agriculture, 1901-25, by M. A. Bradley, assisted by G. M. Hunt. Superintendent of Documents, Government Printing Office, Washington 25, D. C. 1932. \$3.25.

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OTHER PUBLICATION LISTS ISSUED BY THE FOREST PRODUCTS LABORATORY

The following lists of publications, which deal with the other investigative projects of the Forest Products Laboratory, are obtainable upon request:

Boxing and Crating--Strength and serviceability of shipping containers, methods of packing.

Building Construction Subjects--Partial list of Government publications of interest to architects, builders, retail lumbermen, and engineers.

Chemistry of Wood and Derived Products--Chemical properties and uses of wood and chemical products from wood, such as sugars, turpentine, alcohol, charcoal, and acetic acid; chemical stabilization of wood.

Fire Protection--Fire test methods, fire retarding chemicals and treatments and fire behavior of treated and untreated wood, wood products, and wood structures.

Fungus Defects in Forest Products--Decay, stains, and molds in lumber, buildings, and various wood products; antiseptic properties of protective materials.

Furniture Manufacturers, Woodworkers and Teachers of Woodshop Practice--Partial list of publications on growth, structure, and identification of wood; moisture content, physical properties, air seasoning, and kiln drying; grading, manufacturing, and waste utilization; strength and related properties and joints and fastenings; glues and gluing, veneer and plywood fabrication; box and crate construction.

OTHER PUBLICATION LISTS ISSUED BY THE
FOREST PRODUCTS LABORATORY (continued)

Glue, Glued Products, and Veneer--Development of waterproof glues, preparation and application of various glues, plywood manufacturing problems.

Growth, Structure, and Identification of Wood--Structure and identification of wood; the effect of cellular structure of wood on its strength, shrinkage, permeability, and other properties; the influence of environmental factors, such as light, soil, moisture, and fire, on the quality of wood produced; and secretions of economic value produced by trees and their exploitation.

x Mechanical Properties and Structural Uses--Strength of timber and factors affecting strength; design of wooden articles or parts where strength or resistance to external forces is of importance.

Pulp and paper--Suitability of various woods for pulp and paper; fundamental principles underlying the pulping and bleaching processes; methods of technical control of these processes; relation of the chemical and physical properties of pulps and the relation of these properties to papermaking qualities of the pulps; waste in the industry, for example, decay in wood and pulp, utilization of bark, white water losses, etc.

Seasoning of Wood--Experimental and applied kiln drying, physical properties, air drying, steam bending.

Structural Sandwich, Plastic Laminates, and Wood-Base Aircraft Components--Strength, selection, and character of aircraft wood, plywood, and wood and composite laminated and sandwich materials; fabrication and assembly problems; methods of calculating the strength.

Thermal Properties of Wood--General information and the results of research on how wood is affected by and transmits heat.

Wood Finishing Subjects--Effect of coatings in preventing moisture absorption; painting characteristics of different woods, and weathering of wood.

Wood Preservation--Preservative materials and methods of application; durability and service records of treated and untreated wood in various forms.

Note: Since Forest Products Laboratory publications are so varied in subject matter, no single big list is issued. Instead, a list is made up to cover each field of Laboratory investigation. Twice a year, December 31 and June 30, a list is made up showing new reports for the previous 6 months. This is the only item sent regularly to the Laboratory's mailing list. Anyone who has asked for and received the proper subject lists and who has had his name placed on the mailing list can keep up to date on Forest Products Laboratory publications. Each subject list carries descriptions of all other subject lists.

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